Xinmeng Li

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Professional summary

PhD candidate in computer science with career interests in bioinformatics and machine learning.

Education

2017-Current **Tufts University**, Medford, MA.
PhD student in Computer Science, Expected Graduation: May, 2020.

2015 - 2017 **Tufts University**, Medford, MA.
Master of Science
The Kerk and Janelle Loevner Graduate Fellowship
Courses: Algorithm, Machine Learning, Deep Learning, Statistical Pattern Recognition

2011 - 2015 **Sichuan University**, Sichuan, China.
Bachelor of Engineering *Cum Laude* in Computer Science, May 2015
The Lixin Tang Fellowship (Until PhD Graduation)

Research Experience

2016 - 2017 **Tufts University**, Department of Computer Science.
Research Assistant
- Develop computational methods for analyzing antibody sequences inhibiting specific enzymes
- Characterize pathway functionality using experimental mass spectral data
- Identify metabolites with *in silico* fragmenter based on tandem mass spectral data

2011 - 2015 **Sichuan University**, College of Computer Science.
Project Leader
- Develop software that can measure volume of massive material based on aerial photography
- Prepare and present to earn **national funding** for the project
- Writing proposal to publish the Chinese software copyright

2012, 2013 Summer **Zhejiang University**, College of Control Science and Engineering.
Research Assistant
- Collect and preprocess near-infrared reflectance spectroscopy data
- Analyze experimental data by basic support vector machine algorithm

Teaching Experience

2015 - 2017 **Tufts University**, Department of Computer Science.
Teaching Assistant
Courses: Artificial Intelligence, Bioinformatics, Algorithms
- Prepare and teach class on genetic algorithm and simulated annealing
- Evaluate students on experiments, homeworks and projects
- Conduct laboratory using computational tools to analyze biology data

Publication & Presentation

Li X, Van Deventer J, Hassoun S. "Towards the Design of Matrix Metalloproteinases (MMP) Antibody Sequences." In Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (pp. 624-624). ACM.

Porokhin, V.,**Li X**, Hassoun S. "Pathway Enrichment Analysis for Untargeted Metabolomics." In Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (pp. 623-623). ACM.

Li X, Liu L. "Volume Measurement System of Massive Material Based on Aerial Photography." Chinese Software Copyright. 2014SR096344(30100-0000).

Hu R, Wang Y, Yang M, **Li X**, Luo Z, Li G. "Improved Analysis of Inorganic Coal Properties Based on Near-infrared Reflectance Spectroscopy." Analytical Methods. 2015;7(12):5282-8.